

WHAT IS CLAIMED IS:

1. A rotating electric machine having a stator with a slot housing coils, and a closing member for closing the opening of the slot and forming a cooling passage in the slot, the rotating electric machine comprising:

a regulating member for narrowing the cross-sectional area of the cooling passage in the slot.

2. The rotating electric machine as defined in Claim 1, wherein the closing member and the regulating member are integrated.

3. The rotating electric machine as defined in Claim 2, wherein the regulating member extends from the main section of the closing member into the slot.

4. The rotating electric machine as defined in Claim 1, wherein the regulating member is disposed in substantially a central section of the slot.

5. The rotating electric machine as defined in Claim 1, wherein the stator is formed by arranging a plurality of divided cores with coils in a cylindrical shape.

6. A rotating electric machine, comprising:
a stator having a stator core and a slot;
coils housed in the slot;

a closing member for closing the opening of the slot and partitioning a cooling passage in the slot;

wherein the coils are provided in a coiling region limited to a position near the bottom of the slot, and the overall region closer to the opening of the slot than the coils is filled by the closing member.

7. The rotating electric machine as defined Claim 6, further comprising a stopper projecting from the teeth of the stator core into the inner section of the slot and being positioned on the end of the coiling region near the opening of the slot.

8. The rotating electric machine as defined in Claim 6, wherein the closing member comprises a first member and a second member, the first member molded of a resin in the slot opening, and the second member buried after removing a mold member used in the slot to form the first member.

9. The rotating electric machine as defined in Claim 6, wherein the stator is formed by arranging a plurality of divided cores with coils in a cylindrical shape.